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Please Note:

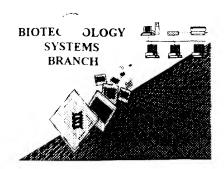
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



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RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/674,330Source: 94/674,330Date Processed by STIC: 1/23/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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 FOR ONE SUBMISSION QUESTIONS, DIFASE CONTACT MADE SPENCED, 203, 209, 4

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1 821 – 1 825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST 25

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO) Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

ERROR DETECTED SUGGESTED CORRECTION ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". _ Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3, as this will prevent "wrapping". Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces ____ Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers. 5 ____ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed _ Variable Length _ contain n's or Xaa's which represented more than one residue As per the rules, each n or Xaa can only represent a single residue Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing. _ Patentin ver 20 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence This applies primarily to the mandatory <220> <223> sections for Artificial or Unknown sequences. Skipped Sequences Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES " response to include the skipped sequence(s) Skipped Sequences Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence (NEW RULES) ₹400> sequence id number 000 Use of n's or Xaa's Use of his and/or Xaa's have been detected in the Sequence Listing (NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present In <220> to <223> section, please explain location of n or Xaa, and, which residue n or Xaa represents 11 ____ Use of <213>Organism Sequence(s) ______ are missing this mandatory field or its response (NEW RULES) 12 ____ Use of <220>Feature Sequence(s) ____ are missing the <220>Feature and associated headings (NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) Patentln ver 20 "bug"

Instead, please use "File Manager" or any other means to copy file to floppy disk

Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted Title, Testalting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing)

(Sec 1 823 of new Rules)